CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/WNo.12/KRIDL/CEMENT/2013-14

Date: 06.04.2013

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Technical Manager (West),** KRIDL, PIU, Bangalore.
NAME OF THE WORK	:	Providing CC roads at Chikkasandra Colony near Govt. School in Shettyhalli Sub Division, Ward No. 12, under 22.75% grant, BBMP, Bangalore.
REFERENCE	:	BBMP/AEE/SSD/DZ/PR/2012-13 Dated: 04.04.2013
SAMPLE ID	:	CEMENT
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	178 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	496 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.00 %	-

AE W-12

Note:

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Job No.: CTCE/BBMP/WNo.12/KRIDL/SAND/2013-14 : 06.04.2013

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, PIU, Bangalore.

Name of Work : Providing CC roads at Chikkasandra Colony near Govt. School in Shettyhalli Sub Division, Ward No. 12, under 22.75% grant, BBMP, Bangalore.

Reference : BBMP/AEE/SSD/DZ/PR/2012-13 Dated: 04.04.2013

Date of Testing : 06.04.2013

Material : Sand Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	89	4.45	4.45	95.6	90-100
2.36	243	12.15	16.60	83.4	75-100
1.18	423	21.15	37.75	62.3	55-90
600 Micron	495	24.75	62.50	37.5	35-59
300 Micron	503	25.15	87.65	12.4	8-30
150 Micron	157	7.85	95.50	4.5	0-10

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Job No.: CTCE/BBMP/WNo.12/KRIDL/AGG/2013-14 : 06.04.2013

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, PIU, Bangalore.

Name of Work : Providing CC roads at Chikkasandra Colony near Govt. School in Shettyhalli Sub Division, Ward No. 12, under 22.75% grant, BBMP, Bangalore.

Reference : BBMP/AEE/SSD/DZ/PR/2012-13 Dated: 04.04.2013

Date of Testing : 06.04.2013

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **25000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	895	3.58	3.58	96.42	95-100
20	16352	65.41	68.99	31.01	30-70
10	4943	19.77	88.76	11.24	10-35
4.75	2363	9.45	98.21	1.79	0-5

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Job No.: CTCE/BBMP/WNo.12/KRIDL/STEEL/2013-14 06.04.2013

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Shettyhalli Sub Diyision, BBMP, Bangalore.
Agency	:	**Technical Manager (West),** KRIDL, PIU, Bangalore.
Name of the work	:	Providing CC roads at Chikkasandra Colony near Govt. School in Shettyhalli Sub Division, Ward No. 12, under 22.75% grant, BBMP, Bangalore.
Reference	:	BBMP/AEE/SSD/DZ/PR/2012-13 Dated: 04.04.2013
Date of Test	:	06.04.2013
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	12	0.89	517	551	13.35	O.K	O.K
2	16	1.58	521	554	13.60	O.K	O.K

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ಕೆಶಿಪ್ರಾಪ್ಯ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/WNo.12/KRIDL/CUBE/2013-14 27.05.2013

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Agency	: **Technical Manager (West),** KRIDL, PIU, Bangalore.
Name of the work	: Providing CC roads at Chikkasandra Colony near Govt. School in Shettyhalli Sub Division, Ward No. 12, under 22.75% grant, BBMP, Bangalore.
Reference	: BBMP/AEE/SSD/DZ/PR/2012-13 Dated: 04.04.2013
Sample ID	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.04.2013	27.05.2013	8.124	358.9	15.95
2	29.04.2013	27.05.2013	8.349	397.9	17.68
3	29.04.2013	27.05.2013	8.273	369.4	16.42

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Job No.: CTCE/BBMP/WNo.12/KRIDL/CUBE/2013-14 18.05.2013

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Agency	: **Technical Manager (West),** KRIDL, PIU, Bangalore.
Name of the work	: Providing CC roads at Chikkasandra Colony near Govt. School in Shettyhalli Sub Division, Ward No. 12, under 22.75% grant, BBMP, Bangalore.
Reference	: BBMP/AEE/SSD/DZ/PR/2012-13 Dated: 04.04.2013
Sample ID	: Culvert Deck Slab Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.04.2013	18.05.2013	8.215	504.7	22.43
2	20.04.2013	18.05.2013	8.326	529.9	23.55
3	20.04.2013	18.05.2013	8.154	486.3	21.61

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